

2023 Report on South Dakota Bridges



Keystone Wye Bridges

As of NBI Federal Submittal in March 2023

The South Dakota DOT owns 1820 bridge length (> 20 ft.) structures. Local government agencies (counties, cities, other governmental agencies, townships) own 3931 structures. Of the 1820 state owned structures, there are 1246 bridges and 574 culverts. Of the 3931 LGA structures, there are 2932 bridges and 999 culverts.

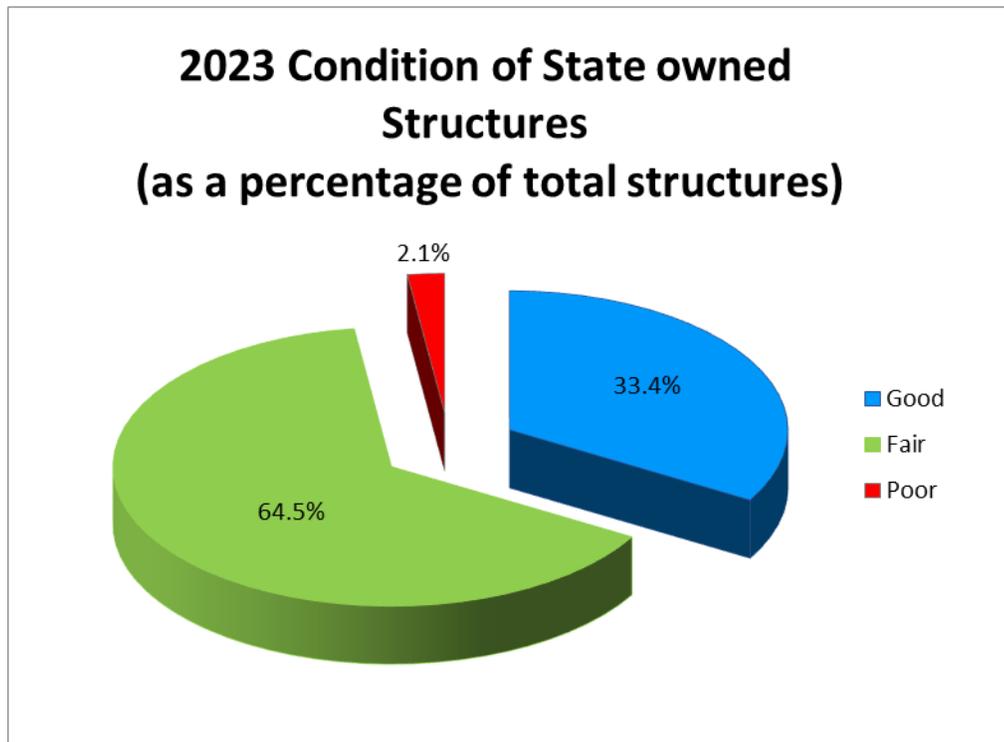
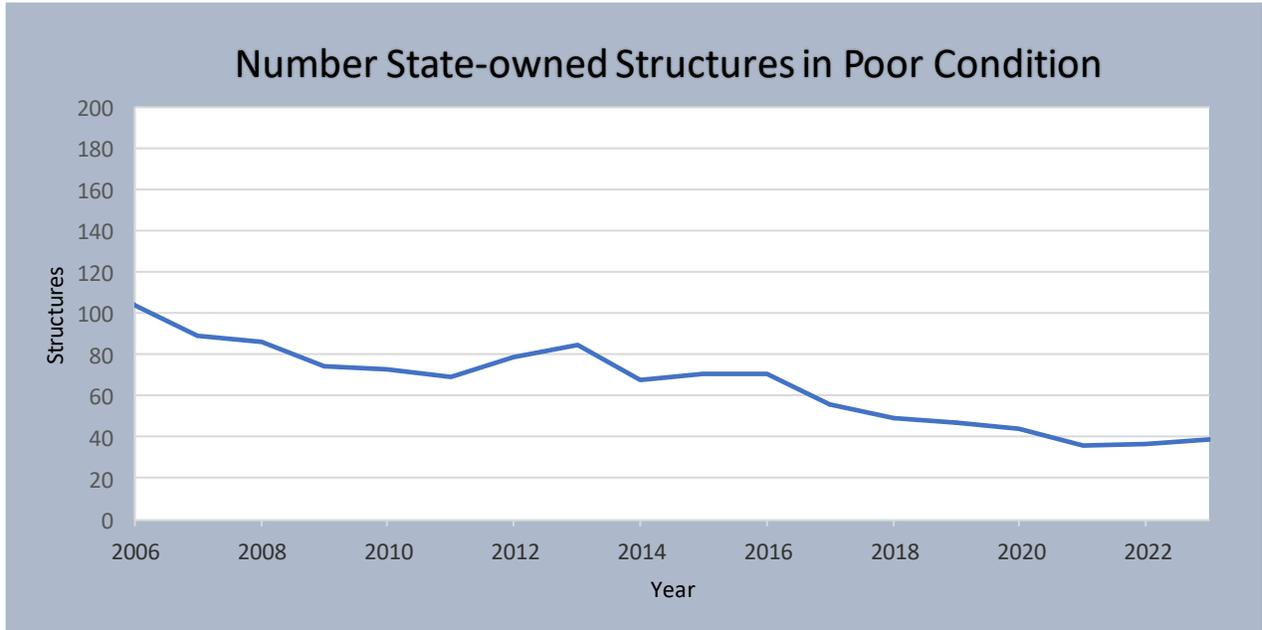
The 1246 state owned bridges account for 10,899,150 sq. ft of deck area and the 2932 locally owned bridges account for 6,972,707 sq. ft of deck area. The average state-owned bridge was built in 1974 and is approximately 41 ft wide by 212 ft long.

There are 9 major Missouri River highway bridge crossings in South Dakota. Two are maintained by Nebraska DOT, and seven are maintained by South Dakota. The seven structures managed by South Dakota total 914,420 sq ft of deck area. This is approximately 8.4% of the state-owned bridge deck area. Four of these bridges are in the Mitchell Region and the other three are in the Pierre Region. The Nebraska DOT manages the bridges on the SD 37 crossing at Running Water and the US 81 crossing at Yankton.

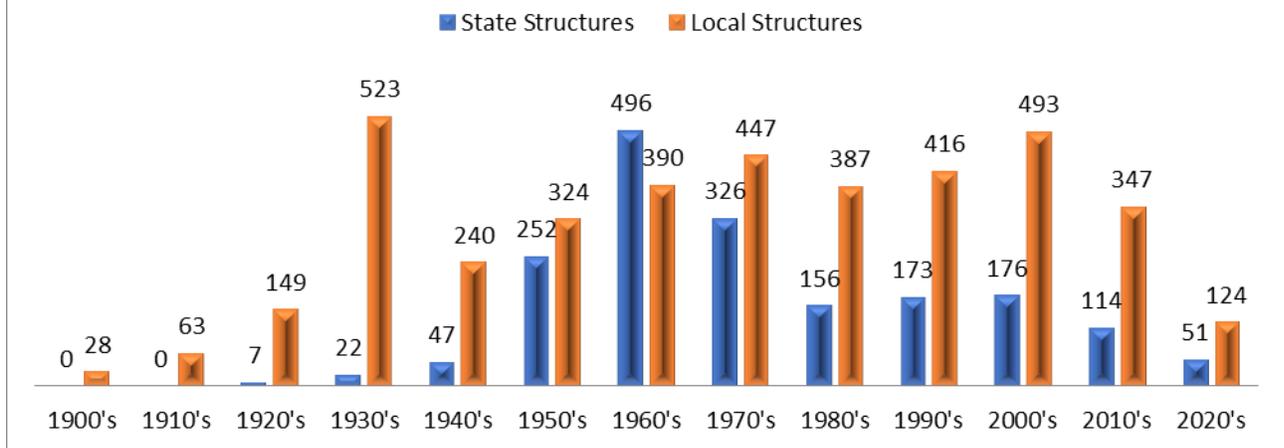
The average Missouri River Bridge is approximately 3,355 feet long. The longest bridge in the state is the Platte-Winner Bridge on SD 44 over Lake Francis Case Reservoir and is 5,656 feet long.

Recent SDDOT Bridge Condition Trends

Currently 2.1% or 39 structures in the SDDOT bridge inventory are in poor condition. In 2018 the requirements that cause a bridge to be structurally deficient changed. Now the definitions for poor condition and structurally deficient are identical.



Current Structures Built in South Dakota by Decade of Original Construction



Most bridges in the state are inspected every two years. South Dakota received approval from FHWA based upon 23 CFR 650 to inspect some of the bridges every 4 years. Currently there are 420 structures eligible for 4-year inspections. These structure types are generally those that do not change or deteriorate very fast. All major Missouri River bridge crossings are inspected every year, except the SD 19 bridge over the Missouri River which was built in 2001. Bridges that require underwater inspections are inspected every 5 years by an underwater inspection consultant who inspects the underwater portions of the bridge. Underwater inspections were conducted on the Missouri River bridges in 2022 with underwater structure inspections on the remainder of the bridges scheduled for the summer of 2023.

Inspection Frequency of State Structures

Frequency	Bridges	NBI Culverts	Total
12 months	7	0	7
24 months	1197	196	1393
48 months	42	378	420
Total	1246	574	1820

Miscellaneous Statistics

	Bridges	NBI Culverts	Total
On Interstate System	636	53	689
On Interstate Mainline	424	46	477
Structures over Water	786	569	1355

Border Bridge Details

Highway	Feature Intersected	Border Agency	SD Str Number	Border State Structure Number	State that Maintains Inventory
I 29 N	Big Sioux River	Iowa	64-165-405	000000000053930	South Dakota
I 29 S	Big Sioux River	Iowa	64-164-405	000000000053941	South Dakota
SD 50	Big Sioux River	Iowa	64-086-223	000000000039650	Iowa
SD 48	Big Sioux River	City of Akron	64-122-170	000000000603911	South Dakota
SD 46	Big Sioux River	Iowa	64-160-023	000000000048451	Iowa
US 18	Big Sioux River	Iowa	42-201-136	000000000034481	Iowa
SD 19	Missouri River	Nebraska	14-104-249	00000S015 20985	South Dakota
SD 37	Missouri River	Nebraska	05-090-279	00000S014 20330	Nebraska
US 81	Missouri River	Nebraska	68-120-210	00000S081 21489	Nebraska